

V&V Reference Report

L2 ASCDS Version : 10.9.1

Observation 6941 - L2 Version 4
Chandra X-Ray Center

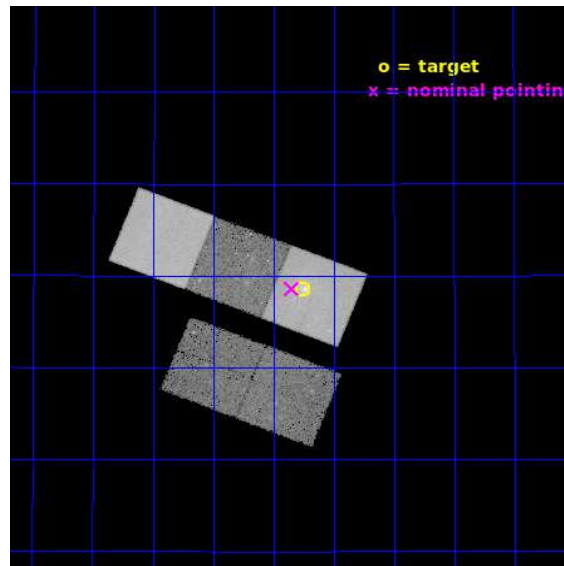
L2 Processing Date : Oct 11 2020

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1 Front

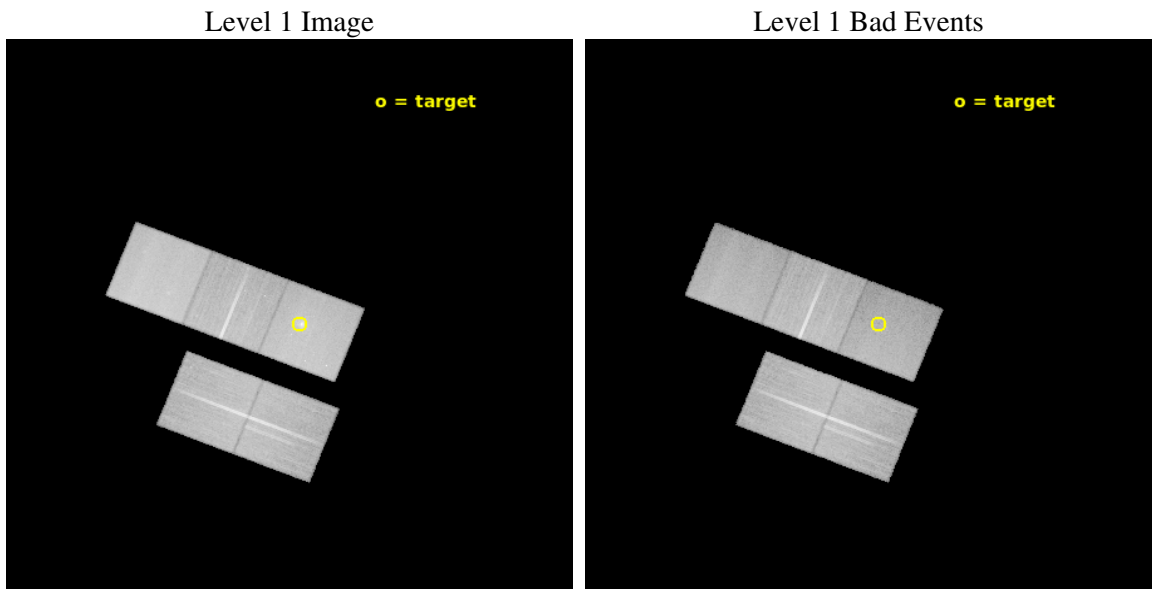
seq_num	800574	Sequence number
obs_id	6941	Observation id
title	The Cosmological Formation of Galaxy Groups	Proposal title
observer	David Buote	Principal investigator
object	RXC J1320.2+3308	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	200.064167	Observer's specified target RA [deg]
dec_targ	33.141667	Observer's specified target Dec [deg]
ra_nom	200.08680070624	Nominal RA [deg]
dec_nom	33.143404582812	Nominal Dec [deg]
roll_nom	21.502346397145	Nominal Roll [deg]
revision	4	Processing version of data
ontime	39134.399924725	Sum of GTIs [s]
livetime	38623.080179383	Livetime [s]
ontime2	39134.399924725	Sum of GTIs [s]
ontime3	39121.836123437	Sum of GTIs [s]
ontime5	39134.399924725	Sum of GTIs [s]
ontime6	39134.399924725	Sum of GTIs [s]
ontime7	39134.399924725	Sum of GTIs [s]
l2events	375013	Number of level 2 events



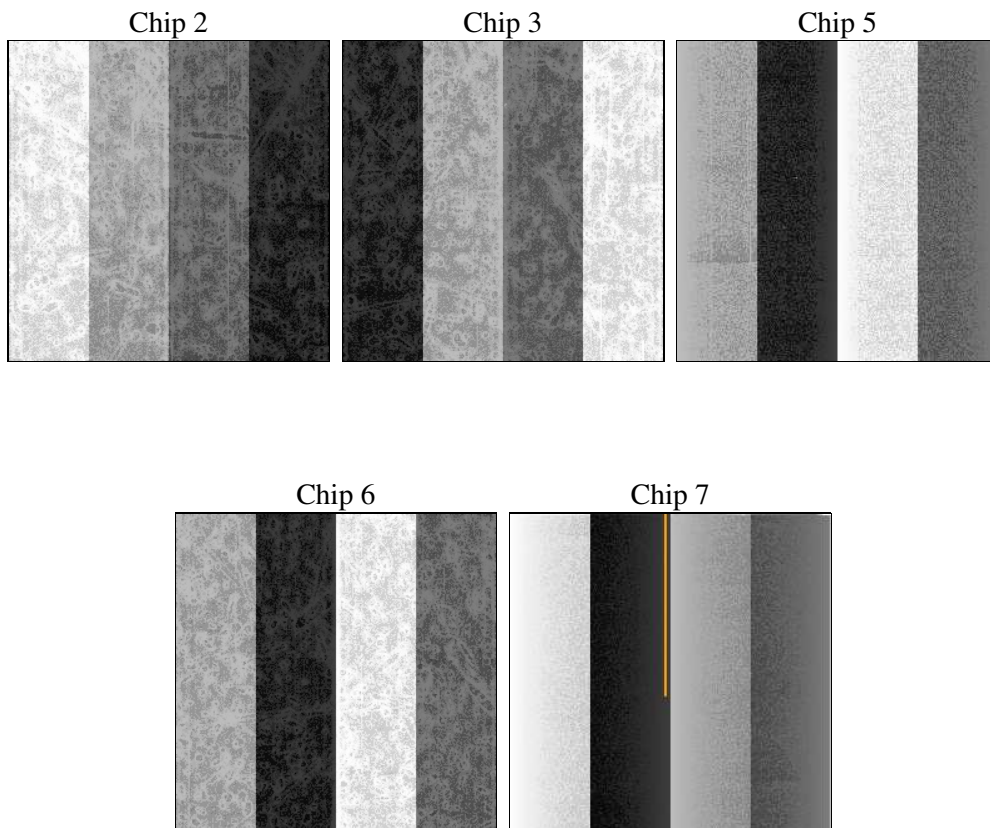
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	39000.000000	[s] Scheduled observation exposure time
ascdsver	10.9.1	Processing system revision	ontime	39134.399924725	Sum of GTIs [s]
caldbver	4.9.2	 	ontime2	39134.399924725	Sum of GTIs [s]
date	2020-10-11T14:41:24	Date and time of file creation	ontime3	39121.836123437	Sum of GTIs [s]
revision	4	Processing version of data	ontime5	39134.399924725	Sum of GTIs [s]
			ontime6	39134.399924725	Sum of GTIs [s]
			ontime7	39134.399924725	Sum of GTIs [s]
			l1events	1449066	Number of level 1 events

2.1.4 Events

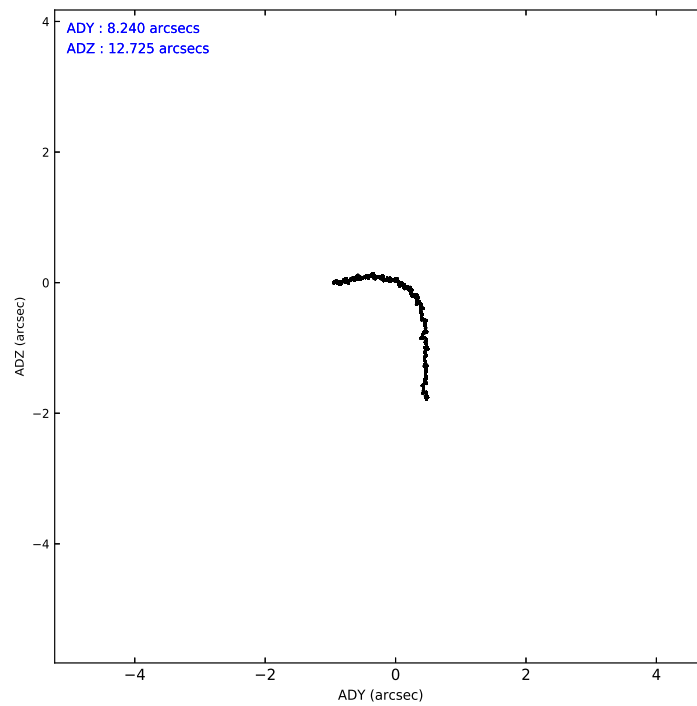
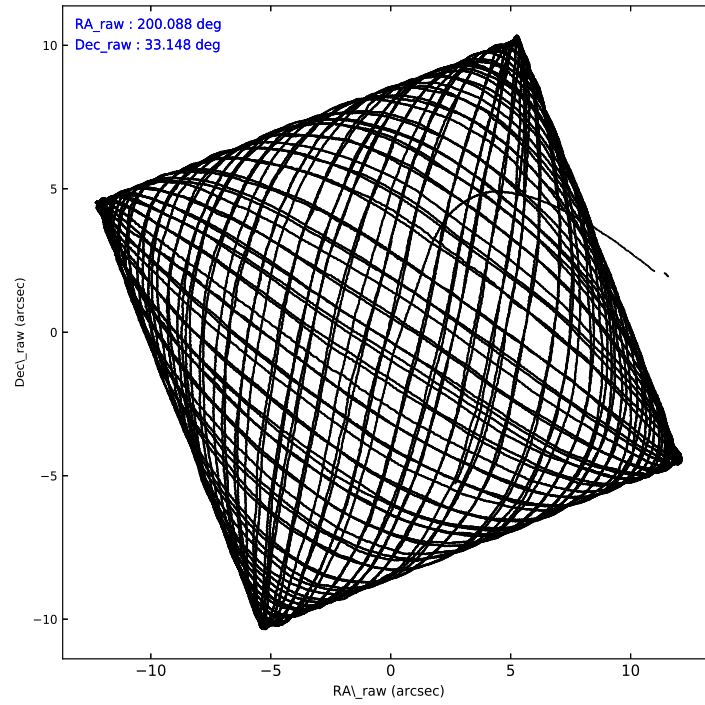
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	272089	255061	349052	262840	310024
rejected events	247320	230862	181475	233168	160399
rejected %	90%	90%	51%	88%	51%

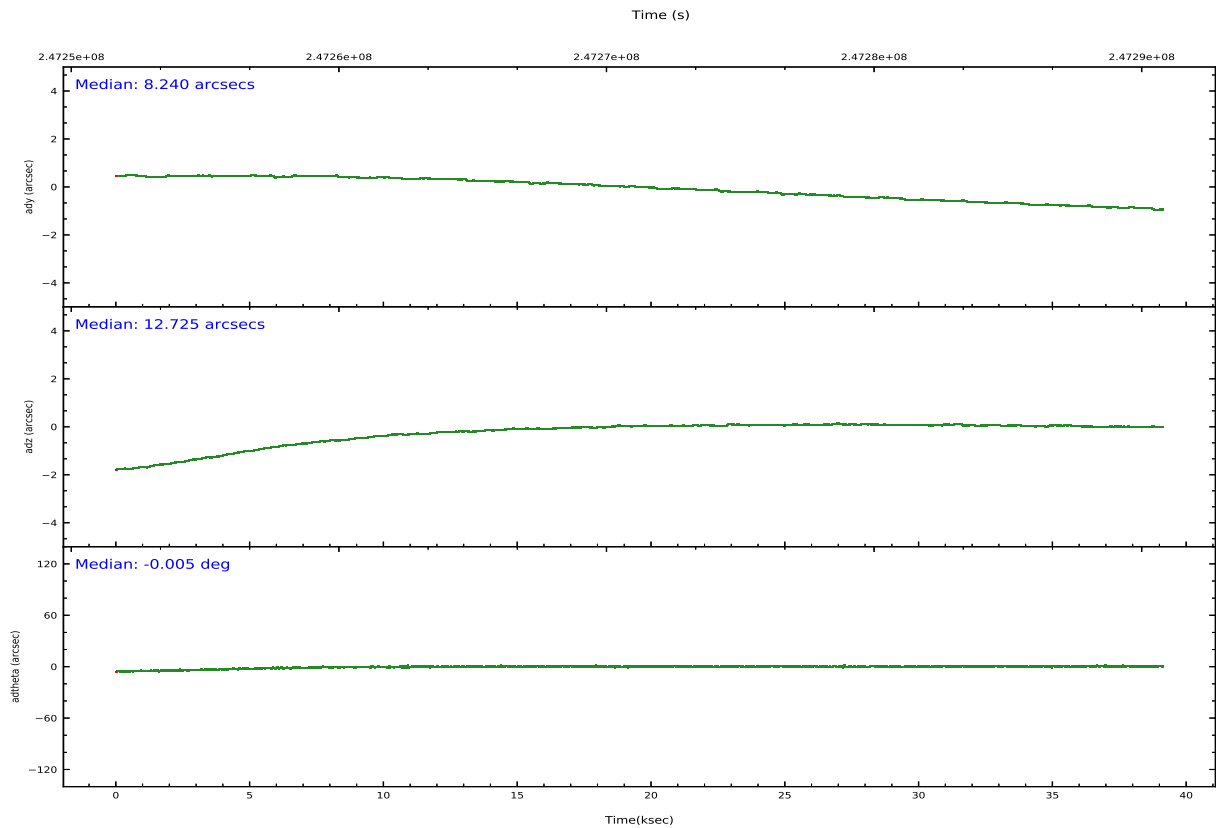
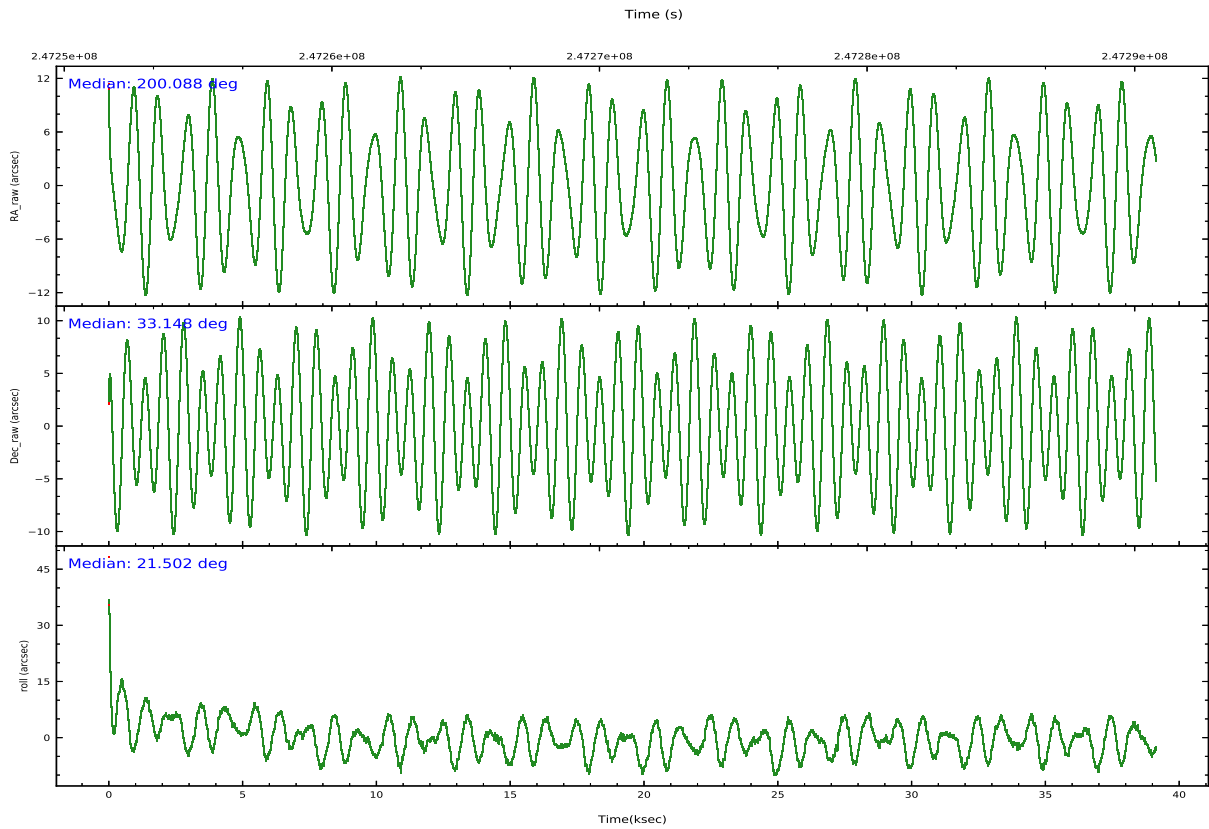
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	8915	8715	11291	11790	18496
	3%	3%	3%	4%	5%
grade 1 events	143	139	298	126	274
	0%	0%	0%	0%	0%
grade 2 events	5931	5178	50381	6152	31539
	2%	2%	14%	2%	10%
grade 3 events	2838	2892	7984	3103	14962
	1%	1%	2%	1%	4%
grade 4 events	2765	2811	7826	3114	14458
	1%	1%	2%	1%	4%
grade 5 events	8173	10150	28967	10543	31136
	3%	3%	8%	4%	10%
grade 6 events	4566	4866	92151	5794	71706
	1%	1%	26%	2%	23%
grade 7 events	238758	220310	150154	222218	127453
	87%	86%	43%	84%	41%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar version number	8	8
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	200.068019	200.08680070624	Subarray requested	NONE	NONE
[deg] Pointing Dec	33.126108	33.143404582812	Alternating exposures requested	N	N
[deg] Pointing Roll	21.365478	21.502346397145	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.684267	-0.6828225247311905			
[mm] SIM defocus	0	0.001444936568705701			
[mm] SIM translation stage pos	-190.132523	-190.1400660498719			
[mm] SIM translation stage offset	0	0.00754346686406393			
[s] Observation start time (MET)	247251802.184000	247250559.46262			
Observation start date	2005-11-01T17:02:18	2005-11-01T16:42:39			
[s] Observation end time (MET)	247290802.184000	247291233.5145			
Observation end date	2005-11-02T03:52:18	2005-11-02T04:00:33			
Read mode	TIMED	TIMED			

2.3 Aspect





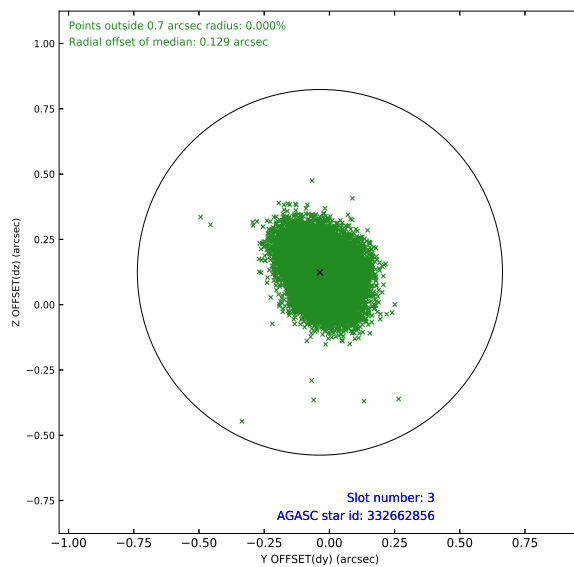
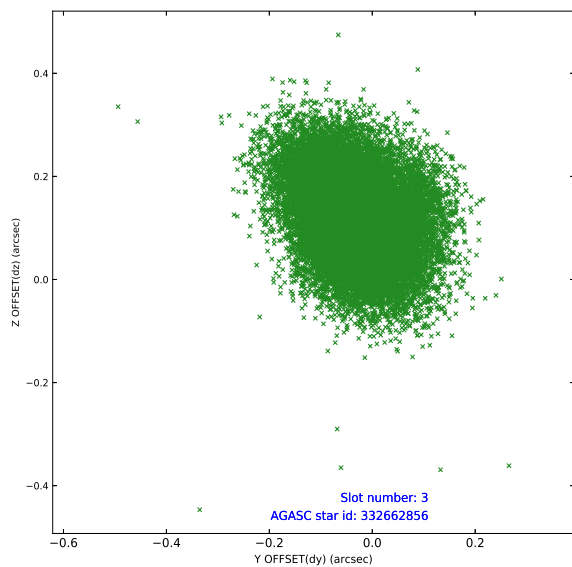
Slot Statistics

slot	status	used	id	mag	n_pts	frac_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_x
0	FID		ACIS-S-2	7.10	9547	1.000	-0.040	-0.077	0.012	0.035	0.000000	0.000000	-760.96	-1733
1	FID		ACIS-S-4	7.20	9547	1.000	0.165	0.040	0.024	0.035	0.000000	0.000000	2152.48	174
2	FID		ACIS-S-5	7.23	9547	1.000	-0.156	0.046	0.026	0.037	0.000000	0.000000	-1813.91	168
3	GUIDE	used	332662856	9.42	19073	1.000	-0.036	0.124	0.117	0.188	200.000182	32.747147	-687.61	-1195
4	GUIDE	used	332663336	10.27	19066	1.000	0.144	0.092	0.154	0.251	200.152981	32.741672	-264.38	-1382
5	GUIDE	used	332666152	7.92	19086	1.000	-0.026	-0.064	0.067	0.108	199.716427	33.438695	-572.99	1434
6	GUIDE	used	332666552	9.92	19074	1.000	-0.094	-0.189	0.108	0.176	200.269618	33.352698	862.19	539
7	GUIDE	used	332668216	9.85	19061	1.000	0.013	0.034	0.123	0.198	200.013897	33.038163	-266.92	-235

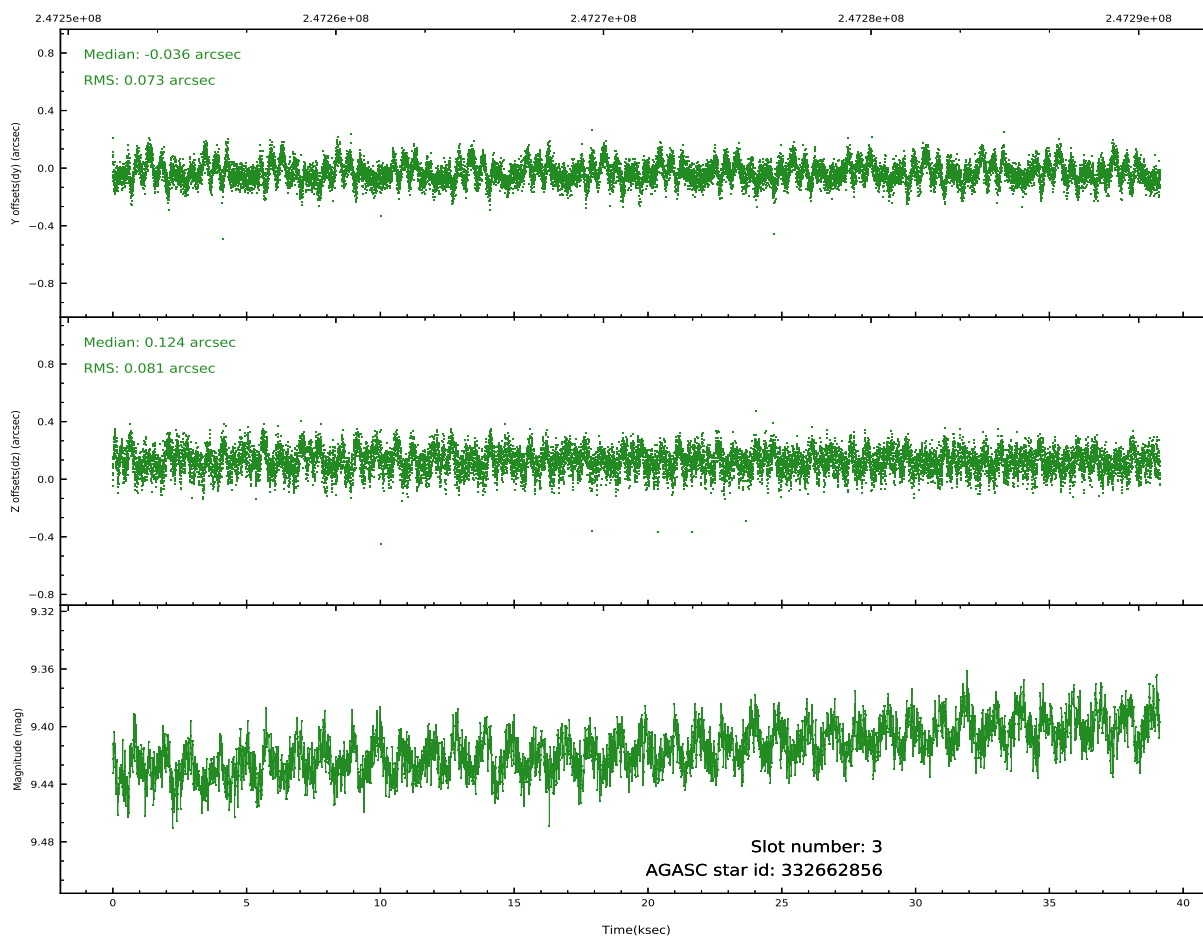
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2.4 Star Slots

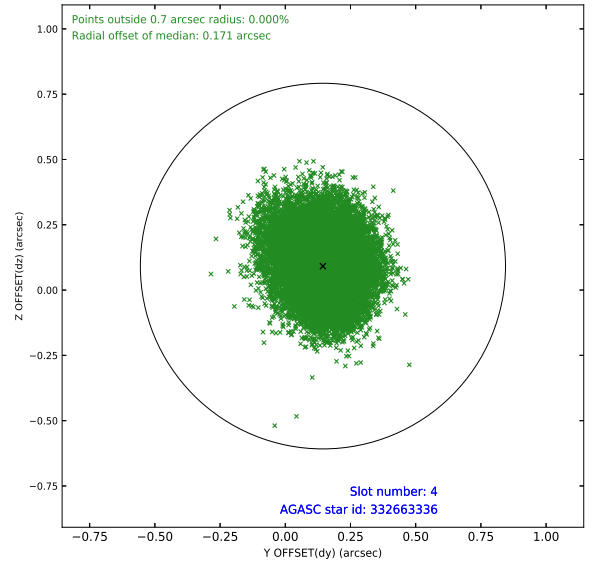
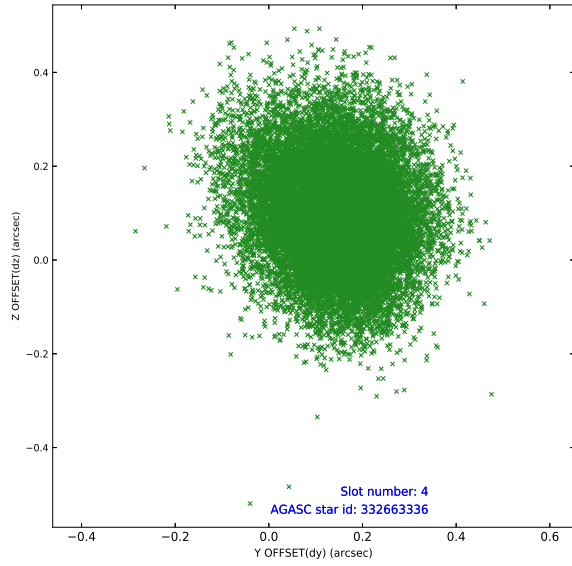
2.4.1 Slot 3



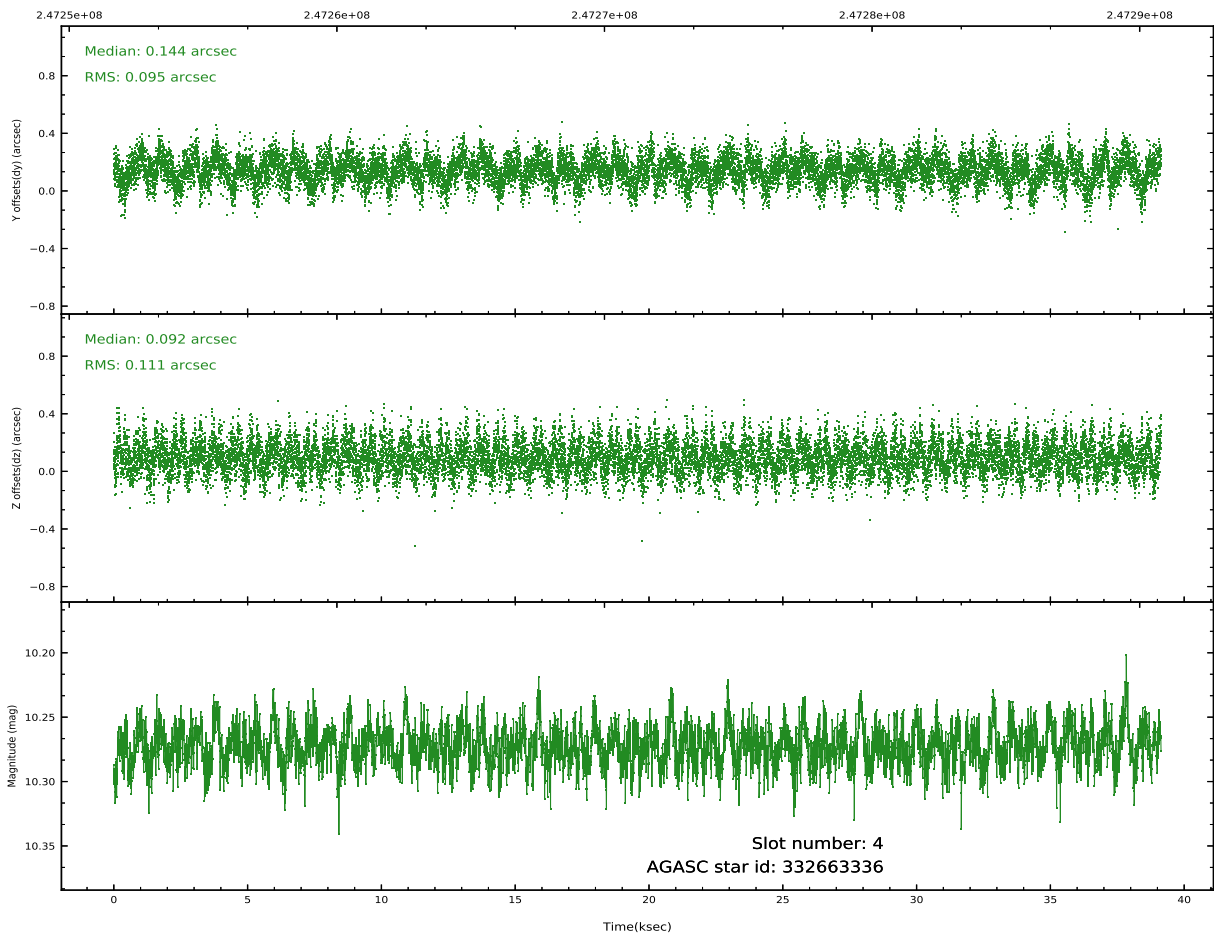
Time (s)



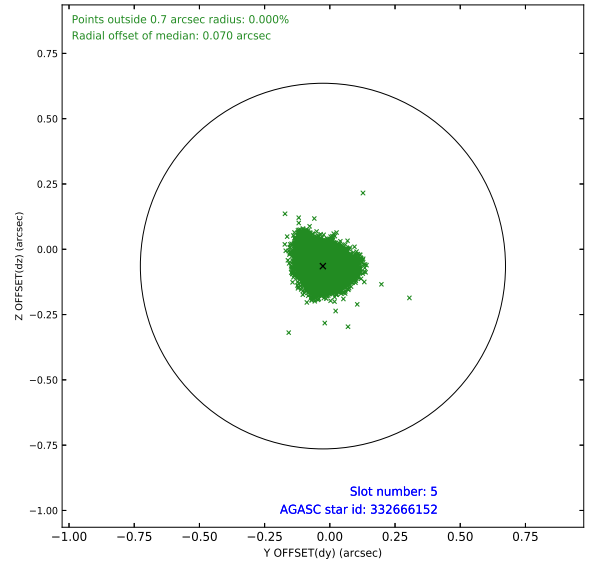
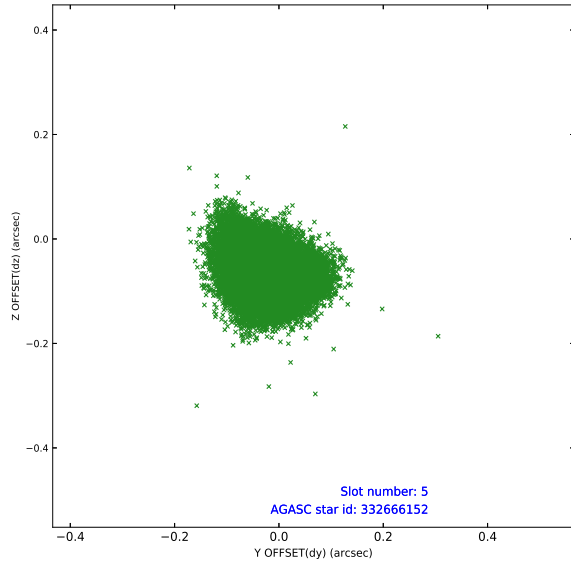
2.4.2 Slot 4



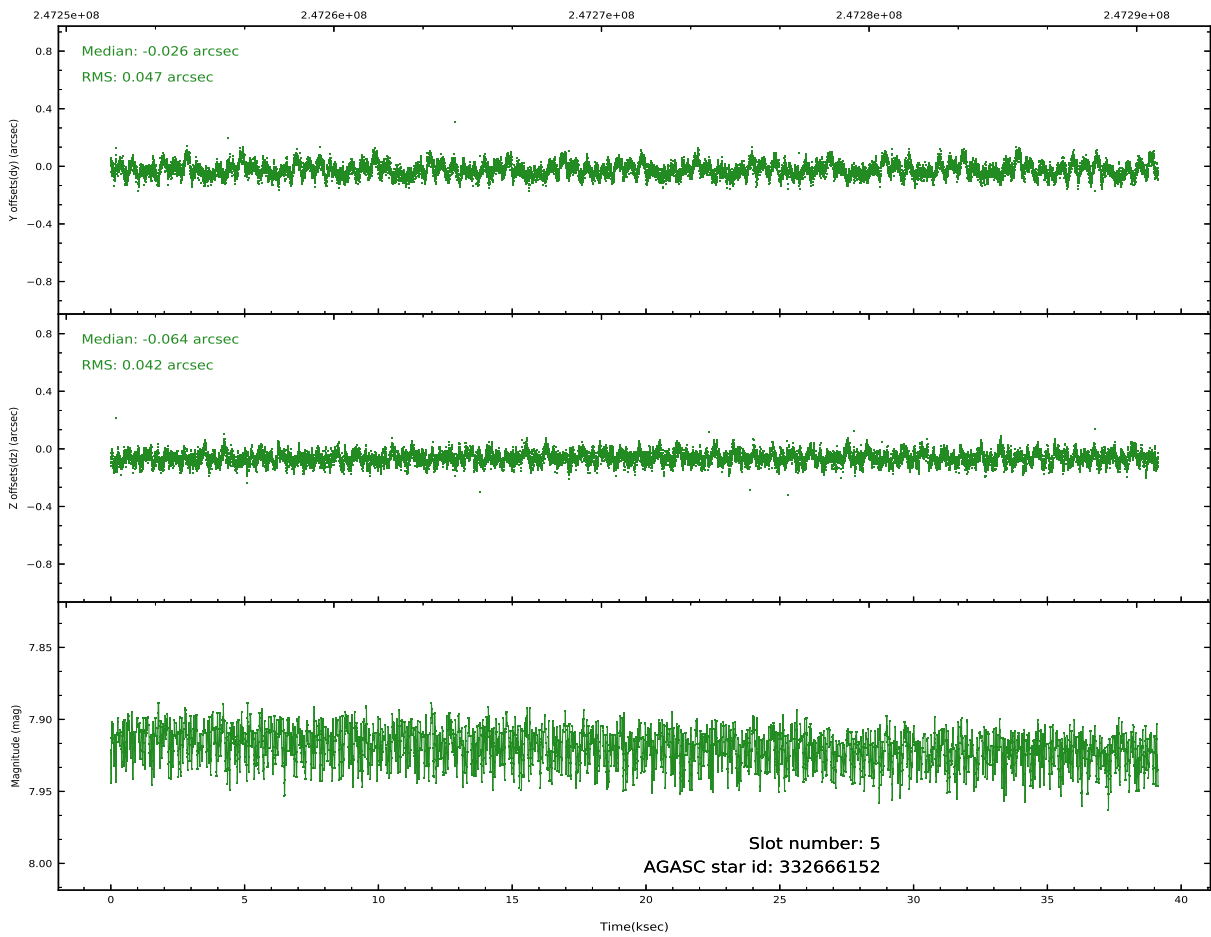
Time (s)



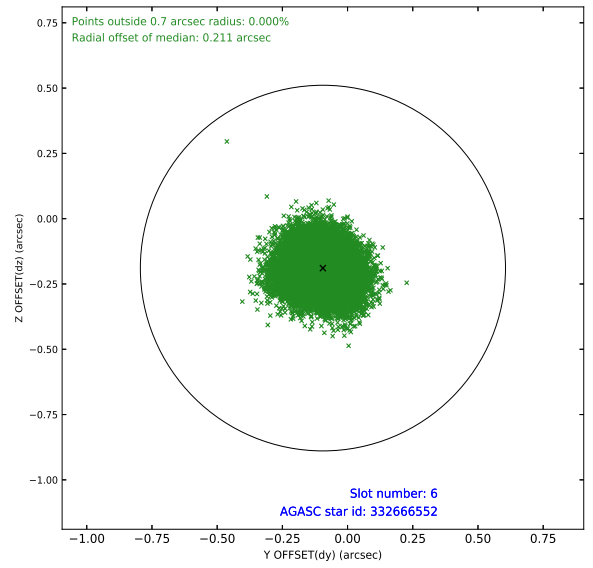
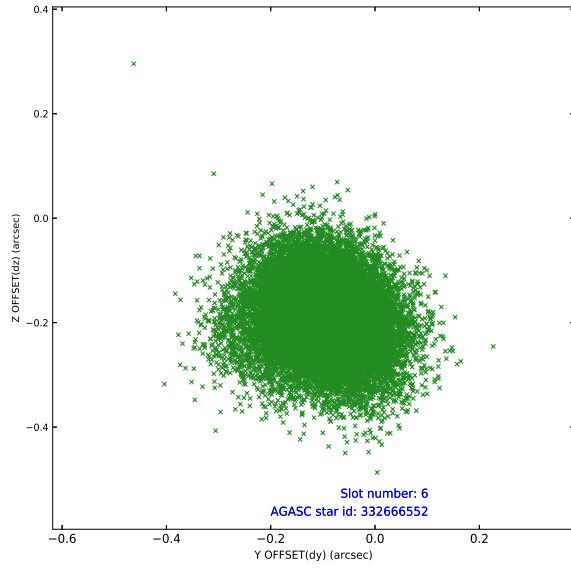
2.4.3 Slot 5



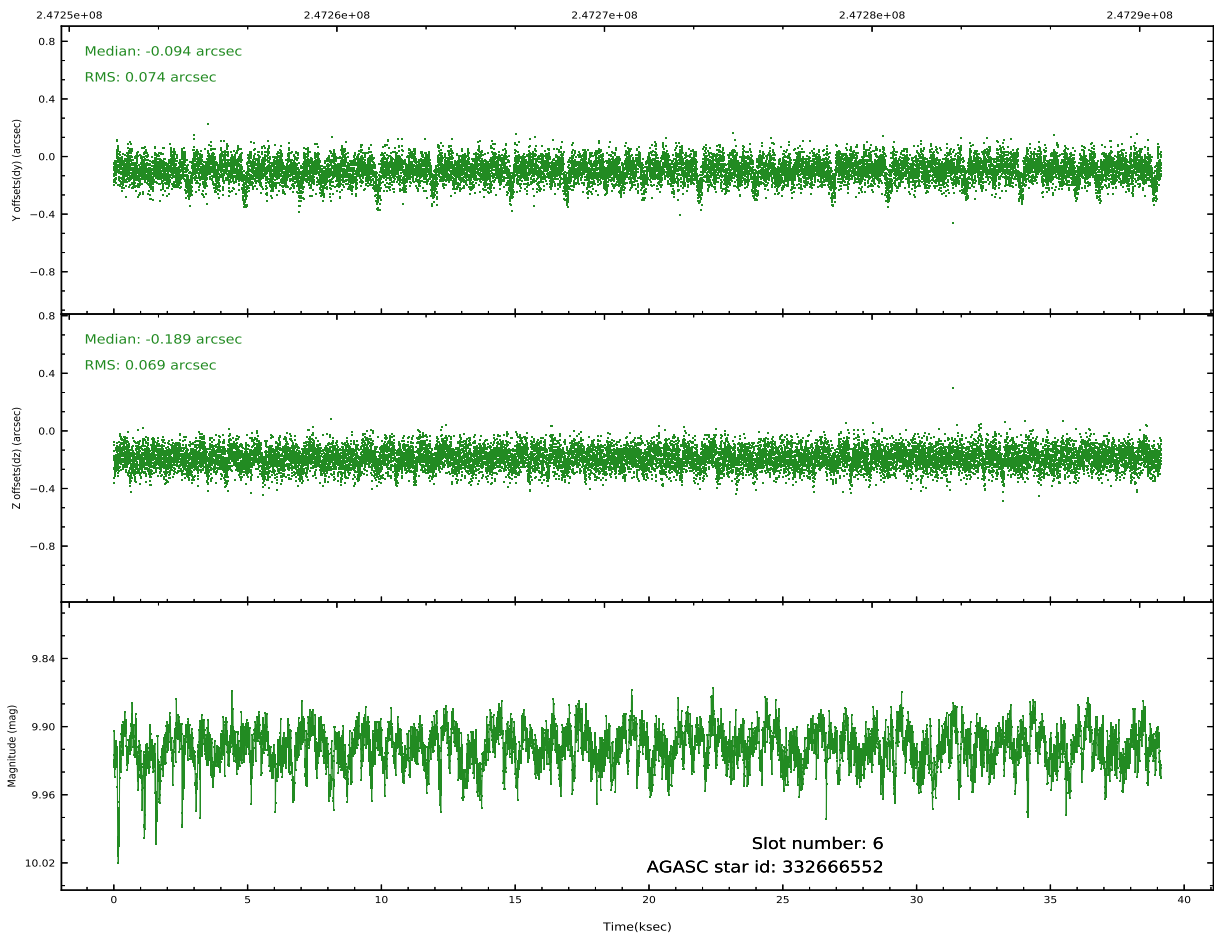
Time (s)



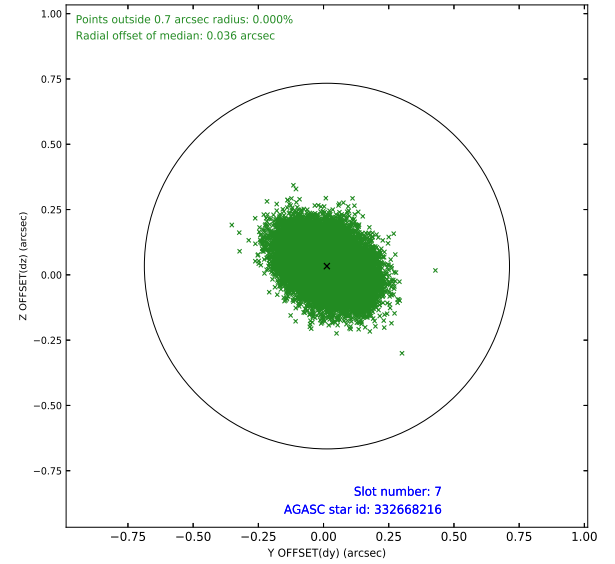
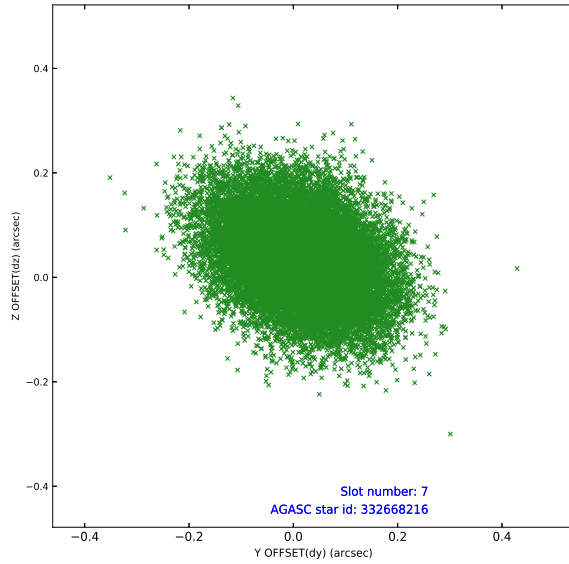
2.4.4 Slot 6



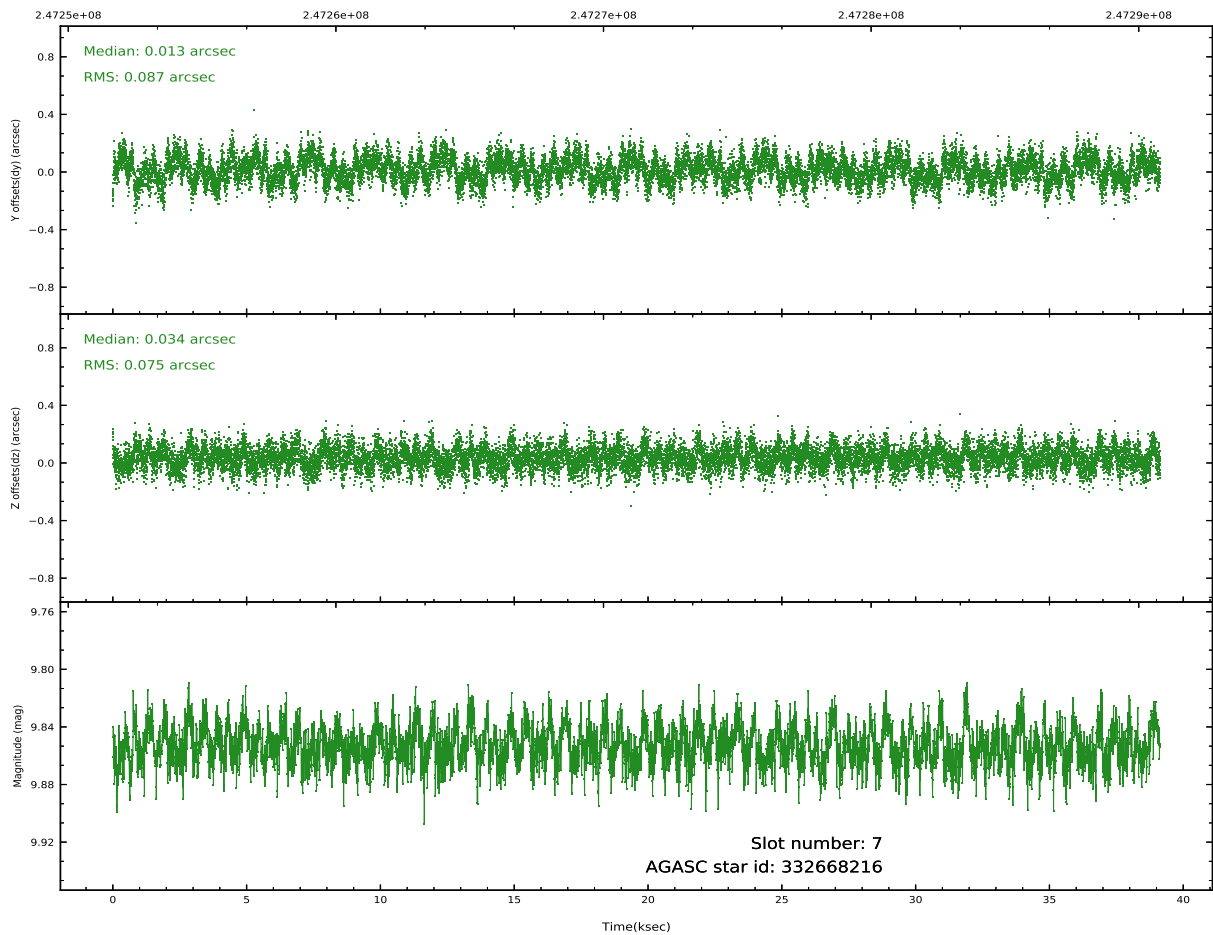
Time (s)



2.4.5 Slot 7

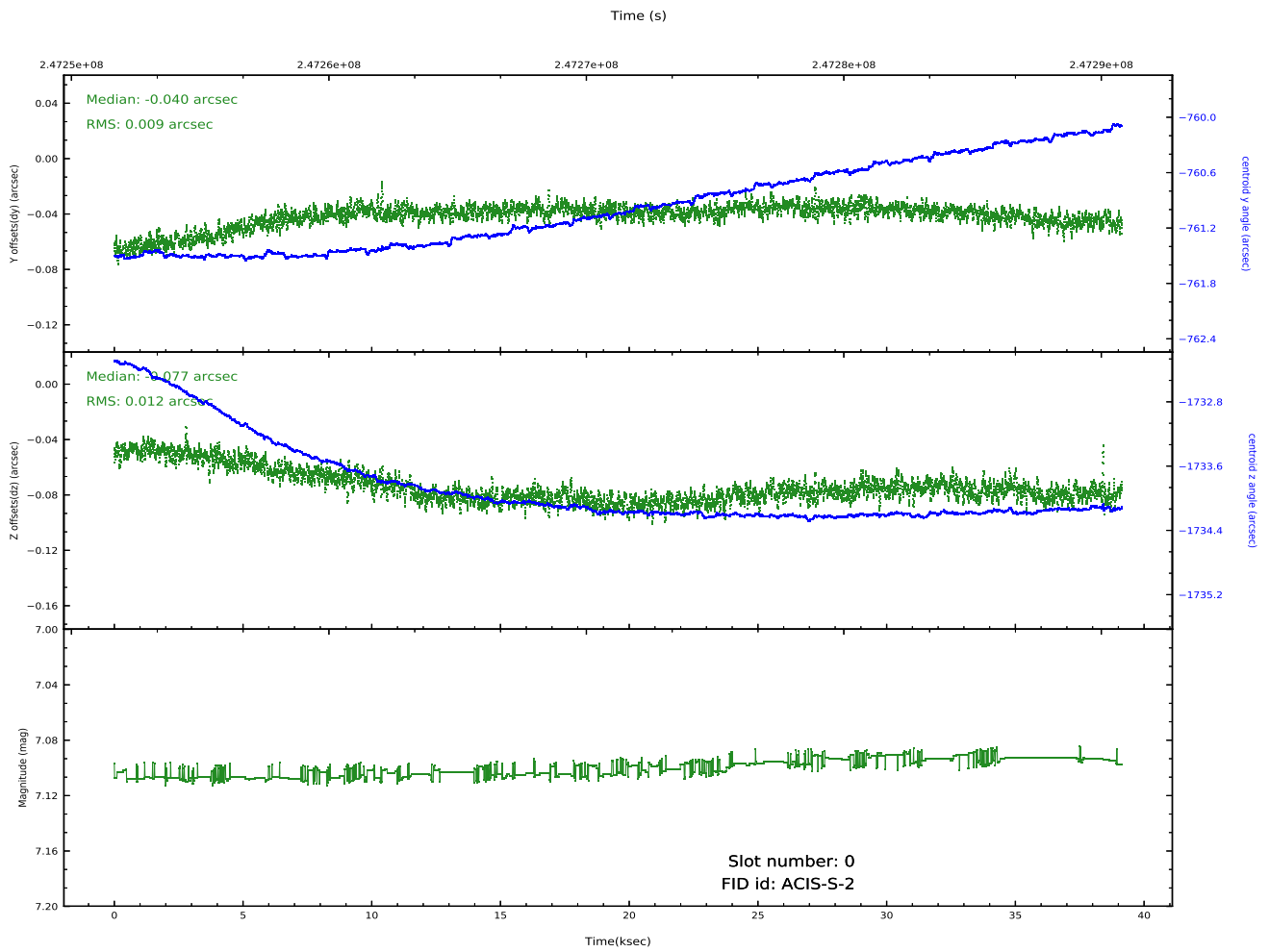
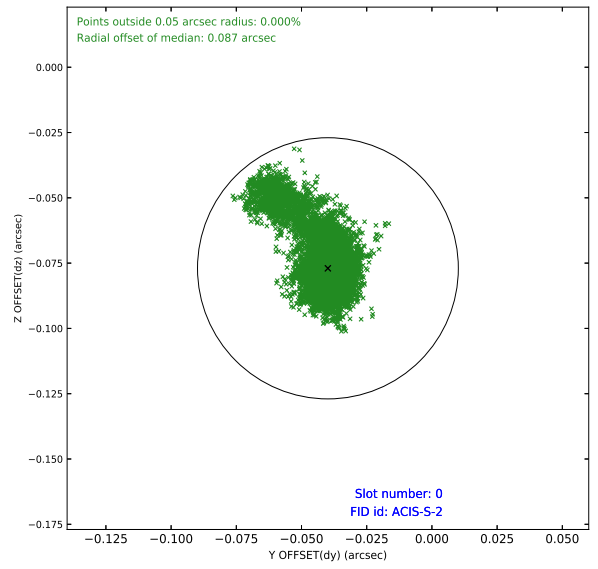
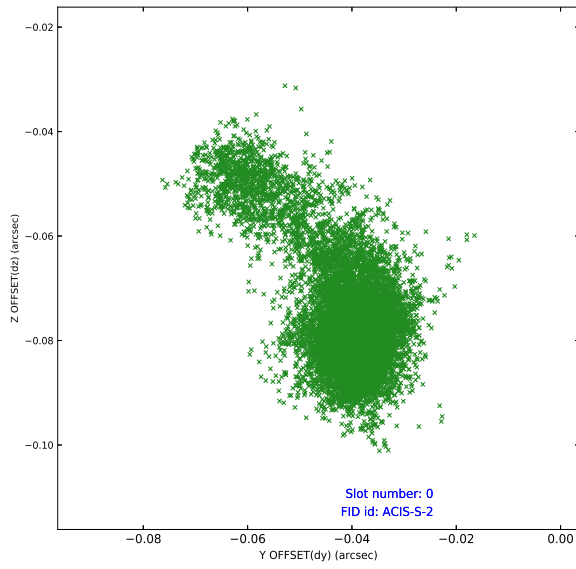


Time (s)

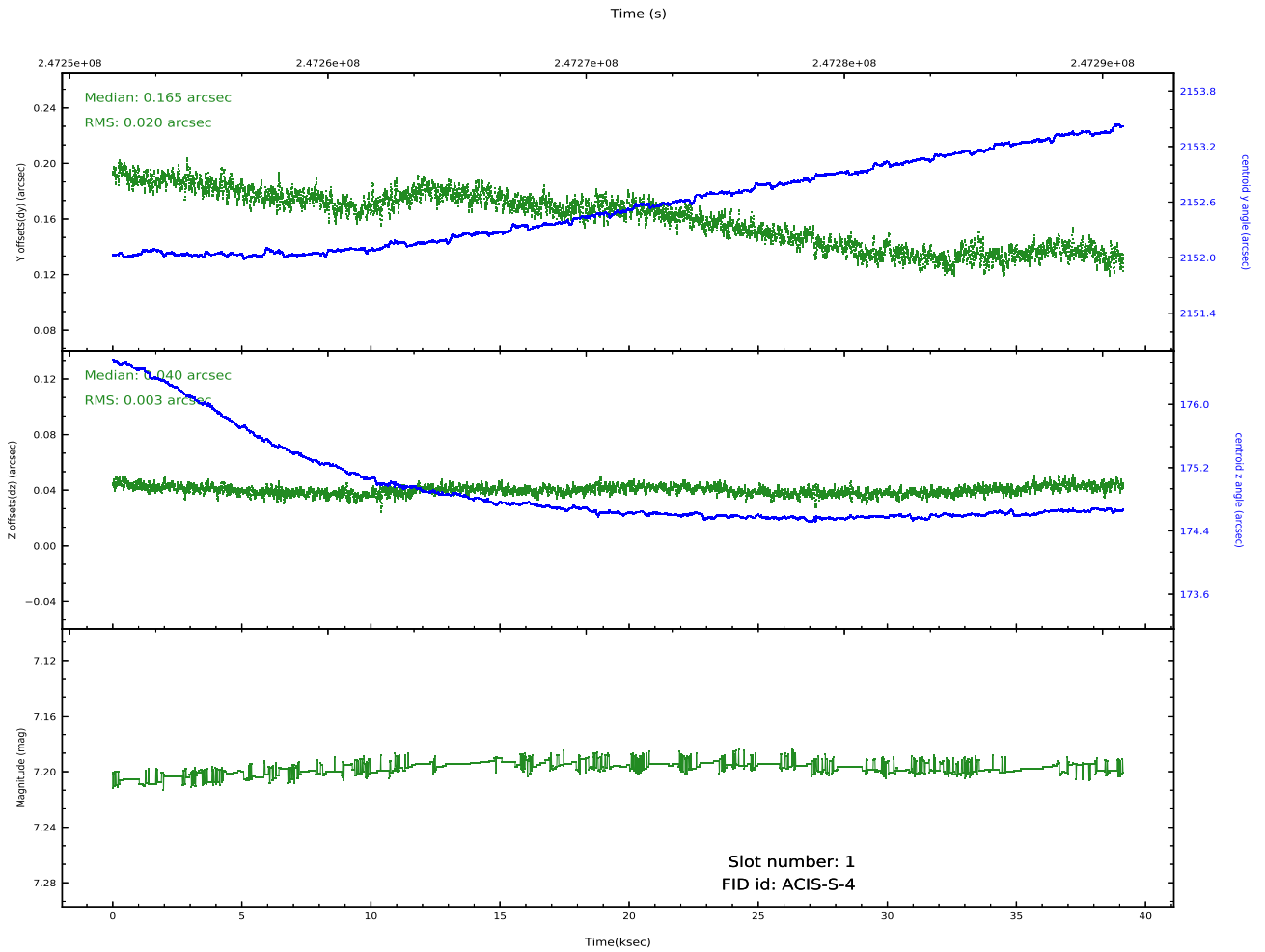
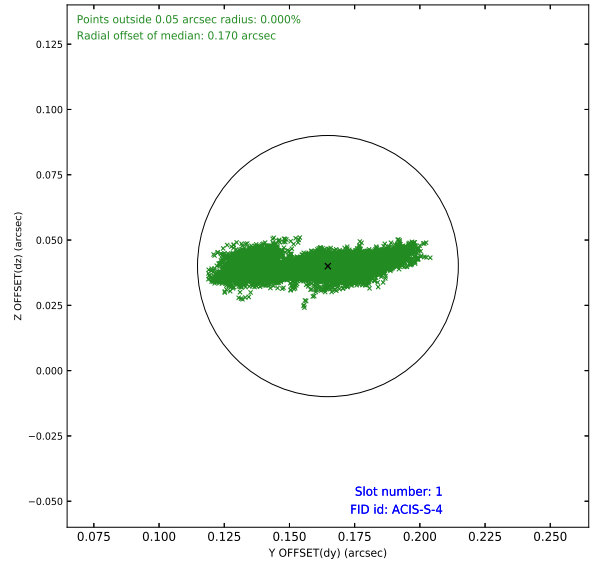
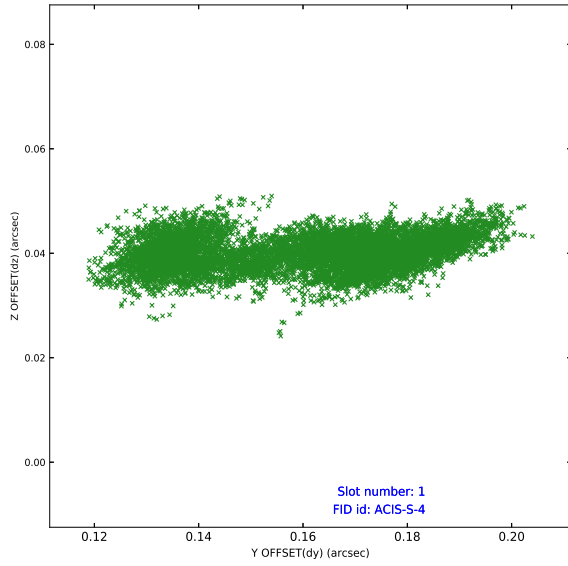


2.5 FID Slots

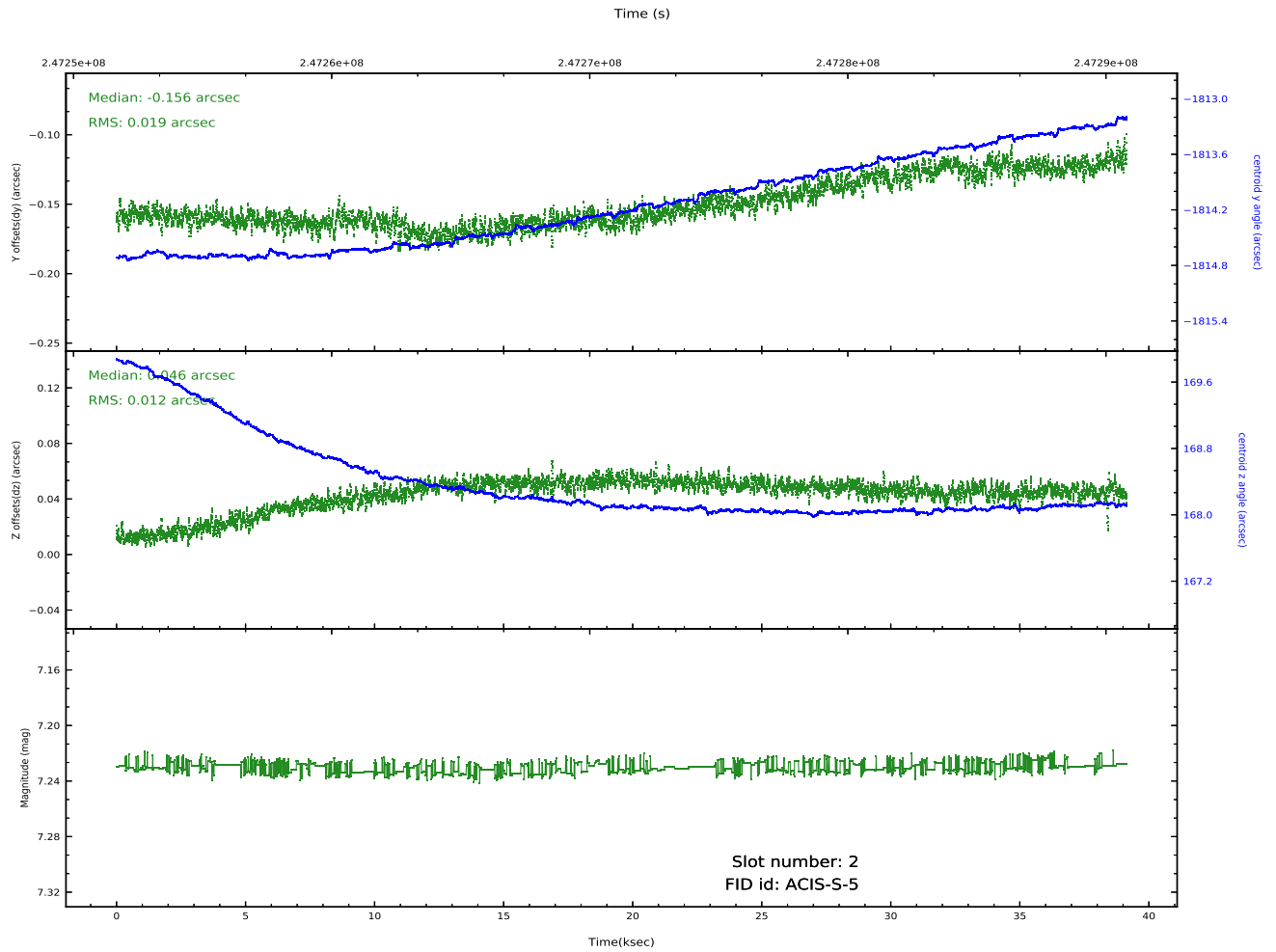
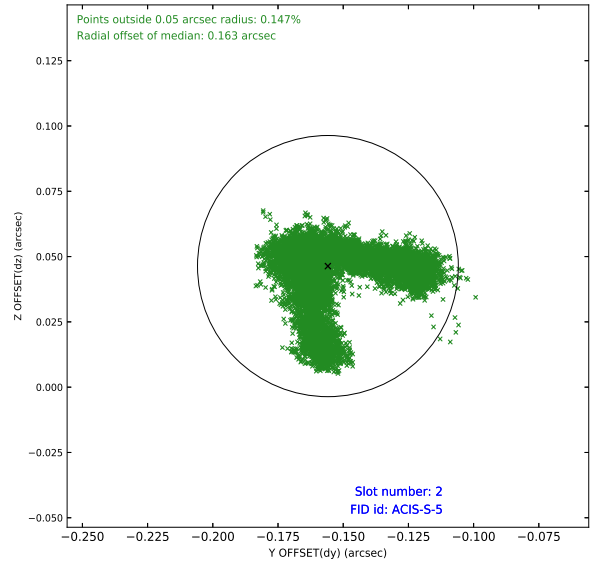
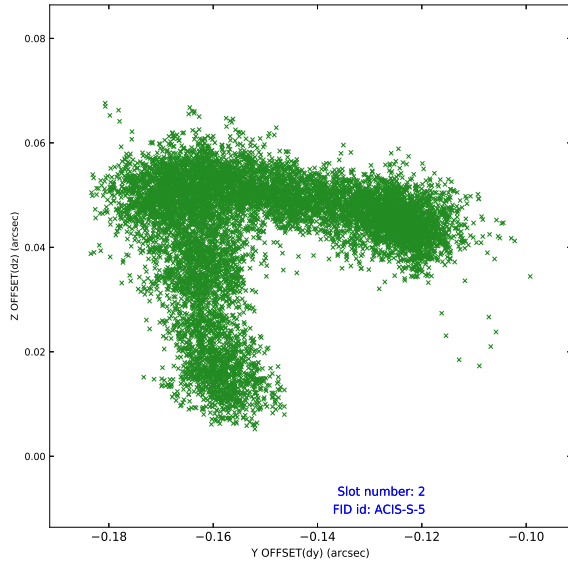
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2020.10.15
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	39.13439

A.2 Comments